

**REMARKS**

Applicants have amended claims 1, 12, 33, 40, 51, and 72 and have added new claims 79-117. Applicants note with appreciation the Office's indication that claims 1-78 are allowable over the prior art of record. In view of the above amendments and the following remarks, reconsideration of the outstanding office action is respectfully requested.

The Office has rejected claims 1-11, 18-32, 40-50 and 55-71 under 35 U.S.C. 101 asserting these claims do not recite a "concrete result" because the cited claims do not clearly define the output of the invention. Applicants note with appreciation the Office's indication that claims 12-17, 33-39, 51-54, and 72-78 do recite a "concrete result" and have amended claims 1 and 40 in view of this indication. More specifically, Applicants have amended claims 1 and 40 to recite, "providing the determined at least one of the stiffness matrix and the residual vector for the selected one or more systems" to more particularly point out and distinctly claim a "concrete result." Claims 1-11, 18-32, 40-50 and 55-71 provide a result which is substantially repeatable and thus produce a "concrete result" as defined on page 22 in the Interim Guidelines for Examination for Patent Subject Matter Eligibility. Accordingly, in view of the foregoing amendments and remarks, the Office is respectfully requested to reconsider and withdraw this rejection.

The Office has rejected claims 72-78 under 35 U.S.C. 101 asserting that these claims lack a positive recitation that what is claimed is a computer readable medium having executable computer code that when executed causes a computer to perform the steps described by the claim limitations. Accordingly, Applicants have amended claim 72 as set forth above to now positively recite that what is claimed is a computer readable medium having instructions stored thereon for determining at least one of a stiffness matrix and a residual vector for one or more systems which when executed by at least one processor cause the processor to perform steps. In view of the foregoing amendments and remarks, the Office is respectfully requested to reconsider and withdraw the rejection of claims 72-78.

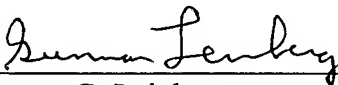
The Office has rejected claims 1-78 under 35 U.S.C. 101 asserting the claims do not recited a "useful result." As set forth on page 20 in the Interim Guidelines for Examination for Patent Subject Matter Eligibility, in determining whether the claim provides a practical application, not on the steps taken, but the final result achieved. Accordingly, Applicants have amended claims 1, 33, 40 and 72 as set forth above to more particularly

point out and distinctly claim the useful result of providing for one or more systems which were selected at least one a stiffness matrix and a residual vector that were determined for the selected systems. As set forth on page 23 in the Interim Guidelines for Examination for Patent Subject Matter Eligibility, if the Office believes the amended claims still preempt a 101 judicial exemption, "the examiner must identify the abstraction, law of nature, or natural phenomenon and explain why the claim covers every substantial practical application thereof." In view of foregoing amendments and remarks, the Office is respectfully requested to reconsider and withdraw this rejection of claims 1-78.

In view of all of the foregoing, Applicants submit that this case is in condition for allowance and such allowance is earnestly solicited.

Respectfully submitted,

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